

Reflection and Refraction

Refraction Lab p 45 and 46 in online lab manual

<http://physics->

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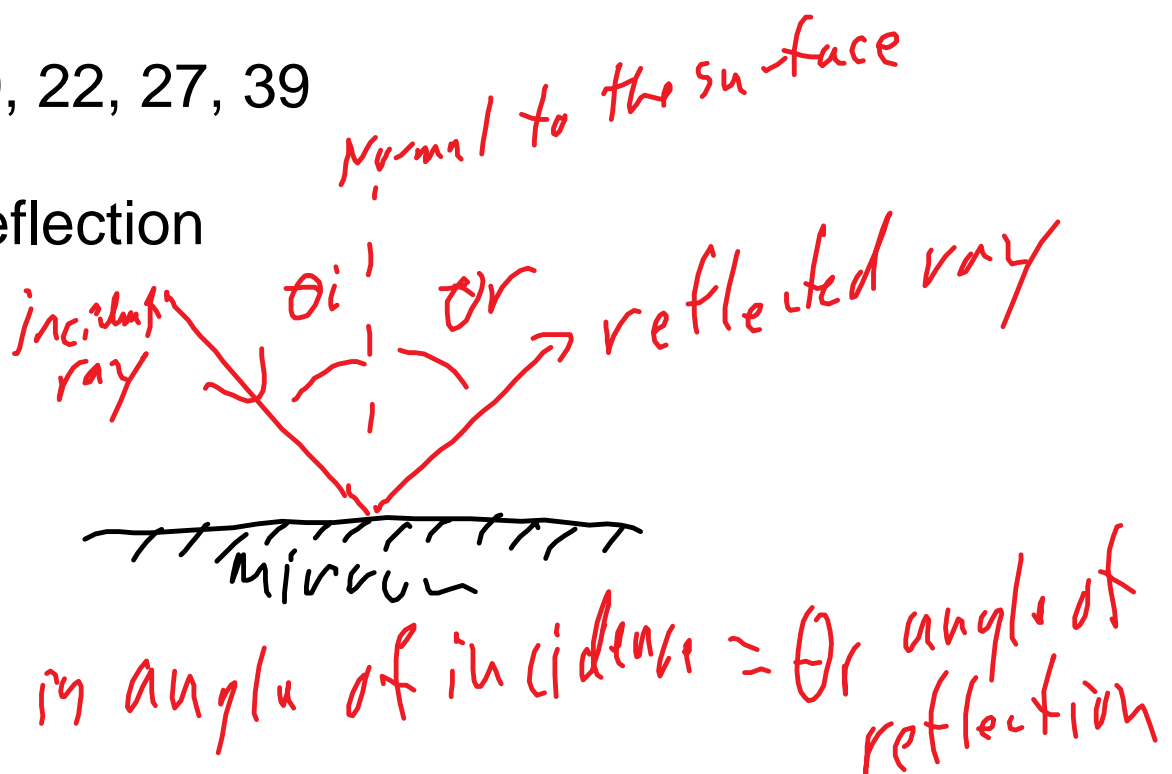
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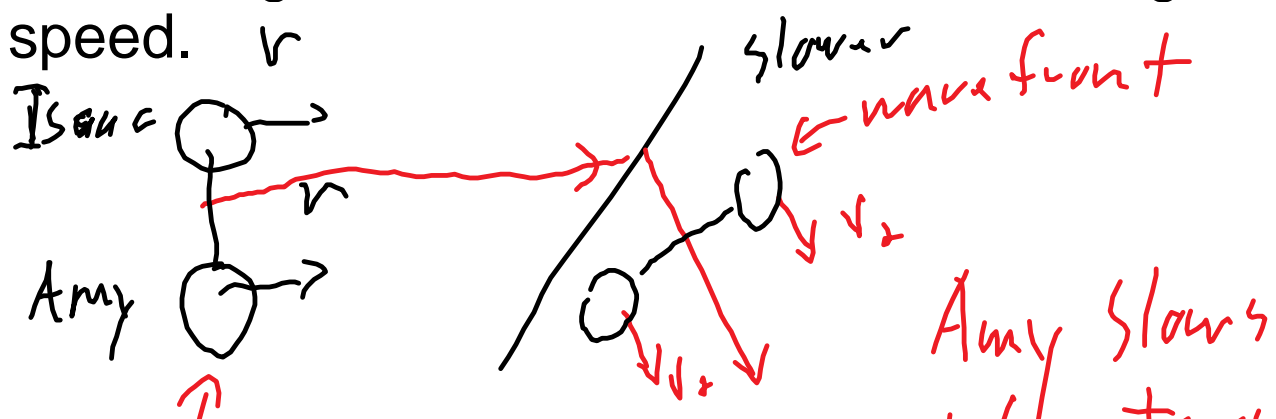
p853 Q19, 22, 27, 39

Law of Reflection



Refraction

When waves go from one medium to another, they can change direction because of the change in speed.





may move
before Isaac
So change direction

The index of refraction, n , is the ratio of the speed in one medium to the speed in a standard medium. For light, we use vacuum as our standard medium.

$$n = c/v$$

table of indices in Hecht p837

water is 1.33 vacuum = 1.000000

air = 1.00029 glass is around 1.5ish

diamond is 2.4

Try to derive the relationship between the angle of incidence and the angle of refraction from

